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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722,099	11/25/2003	James F. Ziech	60680-651	6346	
759	90 03/06/2006		EXAMINER		
DYKEMA GOSSETT PLLC			DUNN, DAVID R		
39577 Woodward Avenue Suite 300			ART UNIT	PAPER NUMBER	
Bloomfeild Hills, MI 48304			3616		
			DATE MAILED: 03/06/2000	DATE MAILED: 03/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/722,099	ZIECH, JAMES F.	
Office Action Summary	Examiner	Art Unit	
	David Dunn	3616	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. tely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>25 N</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowal closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ⊠ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-19 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 25 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 2003.	re: a) accepted or b) object drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08), Paper No(s)/Mail Date 11/25/03, 1/20/04, 212 04, 311 04			

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first spring being "centered along a longitudinal axis" (claims 5 and 12) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Objections

2. Claims 5 and 12 are objected to because of the following informalities: The springs do not appear to be centered "along" a longitudinal axis of the first axle; it appears that they are actually centered "above" the axis of the axle. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Lamela et al. (US 7,000,724).

Lamela et al. discloses a vehicle suspension, comprising: a beam (200) having first and second spaced side walls (300; see Figure 3) and a lateral wall (706; see Figure 7) extending between said first and second side walls, said first and second side walls defining first and second recesses (see Figures 3 and 7) proximate first and second ends, respectively, of said beam; wherein said first and second recesses receive first and second axles (508; Figure 3) of a vehicle and said beam is pivotally (at 230; Figure 2) coupled to a frame of said vehicle at a location intermediate of said first and second axles.

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5. Claims 1-3, 8, 10, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Hickman et al. (US 3,936,073).

Hickman et al. discloses a vehicle suspension, comprising: a beam (21) having first and second spaced side walls (see 21; Figures 3 and 4) and a lateral wall extending between said first and second side walls, said first and second side walls defining first and second recesses (25; Figure 1) proximate first and second ends, respectively, of said beam; wherein said first and second recesses receive first and second axles (12, 13) of a vehicle and said beam is pivotally coupled (35) to a frame of said vehicle at a location intermediate of said first and second axles. The beam is rigidly attached to the axles (see Figure 1). The suspension further comprises first and second springs (rubber springs 76 and compression springs 69) between the frame and beam. The spaced walls are widest at the intermediate location and taper to the ends (see Figure 1). Hickman shows the beam attached by a fastener (36) through a bushing in the central aperture.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 4, 5, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hickman et al. in view of Baxter et al. (US 6,916,037).

Hickman et al. is discussed above but fails to show the springs centered above the axle or shock absorbers at the ends of the beam.

Baxter et al. teaches a suspension comprising a pair of beams (17) with recesses receiving axles (27, 33), first and second springs (35) are each centered above the axis of the first and second axles.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hickman et al. with the teachings of Baxter et al. in order to provide air springs above the axles to provide an improved suspension for the vehicle.

8. Claims 6, 7, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hickman et al. in view of Raidel (US 4,714,269).

Hickman et al. is discussed above but fails to show shock absorbers at the ends of the beam.

Raidel teaches a suspension (32) having first and second shock absorbers (76) at the ends of the beam.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hickman et al. with the teachings of Raidel in order to provide an increased stability for the beam.

9. Claims 9 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hickman et al. in view of VanDenberg (US 4,991,868).

Hickman et al. is discussed above and fails to show a bushing having opposed voids.

VanDenberg teaches a suspension arm attached to the vehicle frame through an aperture having a bushing with opposed voids (see Figures 2 and 4).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hickman et al. with the teachings of VanDenberg to provide a bushing with

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opposed voids in order to provide improved spring rates in the horizontal versus vertical directions.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hartzell et al. shows a beam of interest. Adema et al. shows a suspension of interest.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Dunn whose telephone number is 571-272-6670. The examiner can normally be reached on Mon-Fri, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on 571-272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Dunn Primary Examiner Art Unit 3616